

Sequencing list
SEQUENCE LISTING

<110> JAPAN SCIENCE AND TECHNOLOGY AGENCY

<120> Highly efficient gene targeting

<130> RJ007P41

<160> 30

<170> PatentIn version 3.1

<210> 1

<211> 609

<212> PRT

<213> Homo sapiens

<400> 1

Met Ser Gly Trp Glu Ser Tyr Tyr Lys Thr Glu Gly Asp Glu Glu Ala
1 5 10 15

Glu Glu Glu Gln Glu Glu Asn Leu Glu Ala Ser Gly Asp Tyr Lys Tyr
20 25 30

Ser Gly Arg Asp Ser Leu Ile Phe Leu Val Asp Ala Ser Lys Ala Met
35 40 45

Phe Glu Ser Gln Ser Glu Asp Glu Leu Thr Pro Phe Asp Met Ser Ile
50 55 60

Gln Cys Ile Gln Ser Val Tyr Ile Ser Lys Ile Ile Ser Ser Asp Arg
65 70 75 80

Asp Leu Leu Ala Val Val Phe Tyr Gly Thr Glu Lys Asp Lys Asn Ser
85 90 95

Val Asn Phe Lys Asn Ile Tyr Val Leu Gln Glu Leu Asp Asn Pro Gly
100 105 110

Ala Lys Arg Ile Leu Glu Leu Asp Gln Phe Lys Gly Gln Gln Gly Gln
115 120 125

Lys Arg Phe Gln Asp Met Met Gly His Gly Ser Asp Tyr Ser Leu Ser
130 135 140

Glu Val Leu Trp Val Cys Ala Asn Leu Phe Ser Asp Val Gln Phe Lys
145 150 155 160

Met Ser His Lys Arg Ile Met Leu Phe Thr Asn Glu Asp Asn Pro His
165 170 175

Sequencing list

Gly Asn Asp Ser Ala Lys Ala Ser Arg Ala Arg Thr Lys Ala Gly Asp
180 185 190

Leu Arg Asp Thr Gly Ile Phe Leu Asp Leu Met His Leu Lys Lys Pro
195 200 205

Gly Gly Phe Asp Ile Ser Leu Phe Tyr Arg Asp Ile Ile Ser Ile Ala
210 215 220

Glu Asp Glu Asp Leu Arg Val His Phe Glu Glu Ser Ser Lys Leu Glu
225 230 235 240

Asp Leu Leu Arg Lys Val Arg Ala Lys Glu Thr Arg Lys Arg Ala Leu
245 250 255

Ser Arg Leu Lys Leu Lys Leu Asn Lys Asp Ile Val Ile Ser Val Gly
260 265 270

Ile Tyr Asn Leu Val Gln Lys Ala Leu Lys Pro Pro Pro Ile Lys Leu
275 280 285

Tyr Arg Glu Thr Asn Glu Pro Val Lys Thr Lys Thr Arg Thr Phe Asn
290 295 300

Thr Ser Thr Gly Gly Leu Leu Leu Pro Ser Asp Thr Lys Arg Ser Gln
305 310 315 320

Ile Tyr Gly Ser Arg Gln Ile Ile Leu Glu Lys Glu Glu Thr Glu Glu
325 330 335

Leu Lys Arg Phe Asp Asp Pro Gly Leu Met Leu Met Gly Phe Lys Pro
340 345 350

Leu Val Leu Leu Lys Lys His His Tyr Leu Arg Pro Ser Leu Phe Val
355 360 365

Tyr Pro Glu Glu Ser Leu Val Ile Gly Ser Ser Thr Leu Phe Ser Ala
370 375 380

Leu Leu Ile Lys Cys Leu Glu Lys Glu Val Ala Ala Leu Cys Arg Tyr
385 390 395 400

Thr Pro Arg Arg Asn Ile Pro Pro Tyr Phe Val Ala Leu Val Pro Gln
405 410 415

Glu Glu Glu Leu Asp Asp Gln Lys Ile Gln Val Thr Pro Pro Gly Phe

Sequencing list

420 425 430
 Gln Leu Val Phe Leu Pro Phe Ala Asp Asp Lys Arg Lys Met Pro Phe
 435 440 445
 Thr Glu Lys Ile Met Ala Thr Pro Glu Gln Val Gly Lys Met Lys Ala
 450 455 460
 Ile Val Glu Lys Leu Arg Phe Thr Tyr Arg Ser Asp Ser Phe Glu Asn
 465 470 475 480
 Pro Val Leu Gln Gln His Phe Arg Asn Leu Glu Ala Leu Ala Leu Asp
 485 490 495
 Leu Met Glu Pro Glu Gln Ala Val Asp Leu Thr Leu Pro Lys Val Glu
 500 505 510
 Ala Met Asn Lys Arg Leu Gly Ser Leu Val Asp Glu Phe Lys Glu Leu
 515 520 525
 Val Tyr Pro Pro Asp Tyr Asn Pro Glu Gly Lys Val Thr Lys Arg Lys
 530 535 540
 His Asp Asn Glu Gly Ser Gly Ser Lys Arg Pro Lys Val Glu Tyr Ser
 545 550 555 560
 Glu Glu Glu Leu Lys Thr His Ile Ser Lys Gly Thr Leu Gly Lys Phe
 565 570 575
 Thr Val Pro Met Leu Lys Glu Ala Cys Arg Ala Tyr Gly Leu Lys Ser
 580 585 590
 Gly Leu Lys Lys Gln Glu Leu Leu Glu Ala Leu Thr Lys His Phe Gln
 595 600 605

Asp

<210> 2
 <211> 732
 <212> PRT
 <213> Homo sapiens

<400> 2

Met Val Arg Ser Gly Asn Lys Ala Ala Val Val Leu Cys Met Asp Val
 1 5 10 15

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Gln	Ala	Lys	Lys	Val	Ile	Thr	Met	Phe	Val	Gln	Arg	Gln	Val	Phe	Ala					
		35					40					45								
Glu	Asn	Lys	Asp	Glu	Ile	Ala	Leu	Val	Leu	Phe	Gly	Thr	Asp	Gly	Thr					
	50					55					60									
Asp	Asn	Pro	Leu	Ser	Gly	Gly	Asp	Gln	Tyr	Gln	Asn	Ile	Thr	Val	His					
65					70					75					80					
Arg	His	Leu	Met	Leu	Pro	Asp	Phe	Asp	Leu	Leu	Glu	Asp	Ile	Glu	Ser					
				85					90					95						
Lys	Ile	Gln	Pro	Gly	Ser	Gln	Gln	Ala	Asp	Phe	Leu	Asp	Ala	Leu	Ile					
			100					105					110							
Val	Ser	Met	Asp	Val	Ile	Gln	His	Glu	Thr	Ile	Gly	Lys	Lys	Phe	Glu					
		115					120					125								
Lys	Arg	His	Ile	Glu	Ile	Phe	Thr	Asp	Leu	Ser	Ser	Arg	Phe	Ser	Lys					
	130					135					140									
Ser	Gln	Leu	Asp	Ile	Ile	Ile	His	Ser	Leu	Lys	Lys	Cys	Asp	Ile	Ser					
145					150					155					160					
Leu	Gln	Phe	Phe	Leu	Pro	Phe	Ser	Leu	Gly	Lys	Glu	Asp	Gly	Ser	Gly					
				165					170					175						
Asp	Arg	Gly	Asp	Gly	Pro	Phe	Arg	Leu	Gly	Gly	His	Gly	Pro	Ser	Phe					
			180					185					190							
Pro	Leu	Lys	Gly	Ile	Thr	Glu	Gln	Gln	Lys	Glu	Gly	Leu	Glu	Ile	Val					
		195					200					205								
Lys	Met	Val	Met	Ile	Ser	Leu	Glu	Gly	Glu	Asp	Gly	Leu	Asp	Glu	Ile					
	210					215					220									
Tyr	Ser	Phe	Ser	Glu	Ser	Leu	Arg	Lys	Leu	Cys	Val	Phe	Lys	Lys	Ile					
225					230					235					240					
Glu	Arg	His	Ser	Ile	His	Trp	Pro	Cys	Arg	Leu	Thr	Ile	Gly	Ser	Asn					
				245					250					255						
Leu	Ser	Ile	Arg	Ile	Ala	Ala	Tyr	Lys	Ser	Ile	Leu	Gln	Glu	Arg	Val					
			260					265					270							

Sequencing list

Lys Lys Thr Trp Thr Val Val Asp Ala Lys Thr Leu Lys Lys Glu Asp
 275 280 285
 Ile Gln Lys Glu Thr Val Tyr Cys Leu Asn Asp Asp Asp Glu Thr Glu
 290 295 300
 Val Leu Lys Glu Asp Ile Ile Gln Gly Phe Arg Tyr Gly Ser Asp Ile
 305 310 315 320
 Val Pro Phe Ser Lys Val Asp Glu Glu Gln Met Lys Tyr Lys Ser Glu
 325 330 335
 Gly Lys Cys Phe Ser Val Leu Gly Phe Cys Lys Ser Ser Gln Val Gln
 340 345 350
 Arg Arg Phe Phe Met Gly Asn Gln Val Leu Lys Val Phe Ala Ala Arg
 355 360 365
 Asp Asp Glu Ala Ala Ala Val Ala Leu Ser Ser Leu Ile His Ala Leu
 370 375 380
 Asp Asp Leu Asp Met Val Ala Ile Val Arg Tyr Ala Tyr Asp Lys Arg
 385 390 395 400
 Ala Asn Pro Gln Val Gly Val Ala Phe Pro His Ile Lys His Asn Tyr
 405 410 415
 Glu Cys Leu Val Tyr Val Gln Leu Pro Phe Met Glu Asp Leu Arg Gln
 420 425 430
 Tyr Met Phe Ser Ser Leu Lys Asn Ser Lys Lys Tyr Ala Pro Thr Glu
 435 440 445
 Ala Gln Leu Asn Ala Val Asp Ala Leu Ile Asp Ser Met Ser Leu Ala
 450 455 460
 Lys Lys Asp Glu Lys Thr Asp Thr Leu Glu Asp Leu Phe Pro Thr Thr
 465 470 475 480
 Lys Ile Pro Asn Pro Arg Phe Gln Arg Leu Phe Gln Cys Leu Leu His
 485 490 495
 Arg Ala Leu His Pro Arg Glu Pro Leu Pro Pro Ile Gln Gln His Ile
 500 505 510

Sequencing list

Trp Asn Met Leu Asn Pro Pro Ala Glu Val Thr Thr Lys Ser Gln Ile
515 520 525

Pro Leu Ser Lys Ile Lys Thr Leu Phe Pro Leu Ile Glu Ala Lys Lys
530 535 540

Lys Asp Gln Val Thr Ala Gln Glu Ile Phe Gln Asp Asn His Glu Asp
545 550 555 560

Gly Pro Thr Ala Lys Lys Leu Lys Thr Glu Gln Gly Gly Ala His Phe
565 570 575

Ser Val Ser Ser Leu Ala Glu Gly Ser Val Thr Ser Val Gly Ser Val
580 585 590

Asn Pro Ala Glu Asn Phe Arg Val Leu Val Lys Gln Lys Lys Ala Ser
595 600 605

Phe Glu Glu Ala Ser Asn Gln Leu Ile Asn His Ile Glu Gln Phe Leu
610 615 620

Asp Thr Asn Glu Thr Pro Tyr Phe Met Lys Ser Ile Asp Cys Ile Arg
625 630 635 640

Ala Phe Arg Glu Glu Ala Ile Lys Phe Ser Glu Glu Gln Arg Phe Asn
645 650 655

Asn Phe Leu Lys Ala Leu Gln Glu Lys Val Glu Ile Lys Gln Leu Asn
660 665 670

His Phe Trp Glu Ile Val Val Gln Asp Gly Ile Thr Leu Ile Thr Lys
675 680 685

Glu Glu Ala Ser Gly Ser Ser Val Thr Ala Glu Glu Ala Lys Lys Phe
690 695 700

Leu Ala Pro Lys Asp Lys Pro Ser Gly Asp Thr Ala Ala Val Phe Glu
705 710 715 720

Glu Gly Gly Asp Val Asp Asp Leu Leu Asp Met Ile
725 730

<210> 3
<211> 645
<212> PRT
<213> Neurospora crassa

<400> 3

Sequencing list

Met Ser Trp Arg Lys Asp Gln Asp Glu Arg Leu Asp Gly Asp Glu Gly
1 5 10 15

Asp Glu Glu Leu Asp Glu Asn Val Ser Tyr His Gln Ser Thr His Val
20 25 30

Leu Phe Ala Ile Asp Val Ser Lys Ser Met Leu Lys Pro Pro Gln Asn
35 40 45

Thr Gly Asp Lys Lys Ala Asp Lys Asp Ser Ala Leu Thr Ala Ala Leu
50 55 60

Thr Cys Ala Tyr Gln Ile Met Gln Gln Arg Ile Ile Ser Gln Pro Lys
65 70 75 80

Asp Met Met Gly Val Leu Leu Phe Gly Thr Glu Lys Ser Lys Phe Arg
85 90 95

Asp Asp Ser Gly Asn Gly Thr Gly Tyr Pro His Cys Tyr Leu Leu Ser
100 105 110

Asp Leu Asp Ile Pro Gly Ala Glu Asp Val Lys Lys Leu Lys Ala Leu
115 120 125

Ile Glu Asp Gly Asp Asp Glu Asp Glu Ile Met Val Pro Ser Lys Glu
130 135 140

Pro Val Ile Met Ser Asn Met Leu Phe Cys Ala Asn Gln Val Phe Thr
145 150 155 160

Thr Asn Ala Ala Asn Phe Gly Ser Arg Arg Leu Phe Ile Val Thr Asp
165 170 175

Asn Asp Asp Pro His Ala Gly Asp Lys Gln Ala Lys Ser Ser Ala Ala
180 185 190

Val Arg Ala Lys Asp Leu Tyr Asp Leu Gly Val Val Ile Glu Leu Phe
195 200 205

Pro Ile Ser Arg Glu Asp Lys Lys Phe Asp Leu Ser Lys Phe Tyr Asp
210 215 220

Asp Ile Ile Tyr Arg Asn Pro Ala Ala Glu Ala Gly Gln Ser Glu Ser
225 230 235 240

Pro Lys Thr Ser Lys Ser Gly Asp Gly Leu Thr Leu Leu Asn Ser Leu

Sequencing list															
245					250					255					
Ile	Ser	Asn	Ile	Asn	Ser	Lys	Gln	Thr	Pro	Lys	Arg	Ser	Tyr	Phe	Ser
			260					265					270		
Asn	Leu	Pro	Phe	Glu	Leu	Ala	Pro	Gly	Leu	Thr	Ile	Ser	Ile	Lys	Gly
		275					280					285			
Tyr	Met	Pro	Leu	Asn	Arg	Gln	Thr	Pro	Thr	Arg	Ser	Cys	Tyr	Val	Tyr
	290					295					300				
Glu	Gly	Glu	Glu	Gln	Ala	Gln	Val	Val	Gln	Ser	Glu	Thr	Ala	Gln	Val
305					310					315					320
Asp	Phe	Ala	Ala	Arg	Thr	Val	Glu	Lys	Ser	Glu	Leu	Arg	Lys	Gly	Tyr
				325					330					335	
Lys	Phe	Gly	Gly	Glu	His	Ile	Cys	Phe	Lys	Pro	Glu	Glu	Leu	Ala	Glu
			340					345					350		
Leu	Lys	Gln	Met	Gly	Lys	Lys	Thr	Leu	Arg	Ile	Ile	Gly	Phe	Lys	Lys
		355					360					365			
Arg	Ser	Lys	Ile	Pro	Ser	Trp	Ala	Ser	Val	Lys	Lys	Ser	Ile	Phe	Ile
	370					375					380				
Phe	Pro	Ser	Glu	Glu	Gln	Tyr	Val	Gly	Ser	Thr	Arg	Val	Phe	Ser	Ala
385					390					395					400
Leu	Trp	Gln	Lys	Leu	Leu	Lys	Asp	Asp	Lys	Val	Gly	Ile	Ala	Trp	Phe
				405					410					415	
Val	Ala	Arg	Glu	Asn	Ala	His	Pro	Val	Met	Val	Ala	Ile	Phe	Pro	Ser
			420					425					430		
Gly	Asn	Pro	Asp	Asp	Glu	Glu	Ala	Asn	Thr	Pro	Tyr	Leu	Pro	Ala	Gly
		435					440					445			
Leu	Trp	Leu	Tyr	Pro	Leu	Pro	Phe	Ala	Asp	Asp	Val	Arg	Ser	Val	Asp
	450					455					460				
His	Val	Thr	Ala	Pro	Pro	Arg	Pro	Ala	Asp	Glu	Leu	Thr	Asp	Gln	Met
465					470					475					480
Arg	Gln	Val	Ile	Gln	Asn	Leu	Gln	Leu	Pro	Lys	Ala	Met	Tyr	Asp	Pro
				485					490					495	

Sequencing list

Arg Lys Tyr Pro Asn Pro Ser Leu Gln Trp His Tyr Lys Ile Leu Gln
500 505 510

Ala Lys Ala Leu Asp Glu Glu Thr Pro Asp Ala Met Asp Asp Val Thr
515 520 525

Leu Pro Lys Tyr Arg Gln Ile Asp Lys Arg Val Gly Gly Tyr Leu Ala
530 535 540

Glu Trp Lys Glu Met Leu Ala Lys Lys Ala Asn Asp Leu Gln Asn Thr
545 550 555 560

Arg Ala Phe Lys Arg Glu Phe Glu Glu Asp Asp Glu Arg Pro Ala Lys
565 570 575

Arg Ala Lys Pro Ser Lys Lys Ala Ala Ser Gly Gly Gly Gly Pro Ala
580 585 590

Asn Ser Asn Ala Asp Leu Lys Lys Ala Phe Glu Gln Gly Thr Leu Gly
595 600 605

Lys Met Thr Val Ala Glu Leu Lys Asp Ile Met Ala Ser Lys Gly Ile
610 615 620

Ser Thr Ala Gly Arg Lys Ala Glu Leu Val Glu Arg Leu Glu Gln Trp
625 630 635 640

Val Glu Glu Asn Leu
645

<210> 4
<211> 661
<212> PRT
<213> Neurospora crassa

<400> 4

Met Ala Asp Lys Glu Ala Thr Val Tyr Val Ile Asp Leu Gly Glu Ser
1 5 10 15

Met Ala Asp Cys His Asn Gly Arg Asn Glu Ser Asp Leu Glu Phe Gly
20 25 30

Met Arg Tyr Ile Trp Asp Lys Ile Thr Thr Thr Val Ala Ala Ser Arg
35 40 45

Lys Thr Trp Asn Val Gly Val Val Gly Leu Asn Thr Asp Glu Thr Asn
50 55 60

Sequencing list

Asn Asn Glu Asn Arg Glu Glu Tyr Gln Gly Tyr Glu Asn Ile Ser Val
 65 70 75 80
 Leu Gln Glu Leu Gly Pro Met Thr Met Ala Ser Leu Arg Ala Leu Lys
 85 90 95
 Ser Lys Ile Glu Pro Ser Ser Thr Ser Ser Ala Asp Ala Ile Ser Ala
 100 105 110
 Ile Val Val Ala Leu Arg Met Ile Gln Thr Phe Thr Lys Lys Leu Lys
 115 120 125
 Tyr Lys Arg Lys Ile Ile Val Val Thr Asn Gly Glu Ser Pro Ile Asp
 130 135 140
 Asp Asp Gln Ser Glu Glu Val Ala Asn Met Leu Asn Asp Val Gly Ile
 145 150 155 160
 Glu Leu Ile Val Leu Gly Val Asp Phe Asp Asp Ala Glu Tyr Gly Phe
 165 170 175
 Lys Glu Glu Asp Lys Pro Arg His Lys Glu Gln Asn Glu Lys Ile Leu
 180 185 190
 Lys Thr Leu Val Asp His Cys Glu Ser Gly Ala Phe Gly Thr Met Ala
 195 200 205
 Gln Ala Val Glu Glu Leu Ala Thr Pro Arg Ile Lys Ser Val Arg Pro
 210 215 220
 Phe Lys Ala Tyr Asp Gly Pro Leu Thr Leu Gly Asp Pro Gln Lys Tyr
 225 230 235 240
 Pro Ser Ala Leu Ser Ile Gln Val Glu Arg Tyr Phe Lys Thr Lys Arg
 245 250 255
 Ala Thr Pro Pro Ser Ala Ser Asn Val Ala Asn Pro Asn Gly Pro Pro
 260 265 270
 Gln Thr Gln Val Trp Asn Glu Asp Asp Gly Val Pro Phe Ser Gly Val
 275 280 285
 Gly Leu Gln Pro Val Lys Gln Leu Arg Thr Tyr Arg Ile Glu Asp Ser
 290 295 300

Sequencing list

Lys Ala Ala Gly Gly Lys Lys Asp Val Asp Met Glu Asp Leu Ala Lys
 305 310 315 320

Ala Tyr Gln Tyr Gly Arg Thr Val Val Pro Phe Gly Lys Ser Glu Glu
 325 330 335

Asp Tyr Leu Lys Tyr Glu Thr Thr Lys Ser Phe Thr Ile Ile Gly Phe
 340 345 350

Val Pro Met Ser Ser Tyr Glu Pro Phe Leu Asn Met Gly Glu Thr Gly
 355 360 365

Leu Ile Val Ala Gln Lys Val Asn Glu Glu Ala Glu Leu Gly Leu Ser
 370 375 380

Ala Leu Ile His Ala Leu His Glu Leu Glu Ser Tyr Ala Val Ala Arg
 385 390 395 400

Tyr Val Asn Lys Asp Lys Ala Pro Pro Gln Ile Leu Leu Leu Lys Pro
 405 410 415

Asn Pro Ala Ile Glu Asp Asp Ile Glu Cys Leu Tyr Asp Ile Pro Leu
 420 425 430

Pro Phe Ala Glu Asp Val Arg Ser Tyr Gln Phe Pro Pro Leu Asp Lys
 435 440 445

Val Leu Thr Ile Thr Gly Asn Val Leu Thr Glu His Arg Leu Leu Pro
 450 455 460

Asn Asn Asp Leu Gln Gln Ala Met Ser Asp Tyr Val Asp Ala Met Asp
 465 470 475 480

Leu Thr Glu Tyr Gly Gln Asp Asp Asp Gly His Pro Ala Glu Tyr Ala
 485 490 495

Pro Ile Asp Asp Leu Tyr Asn Pro Val Ile His His Met Asn Gln Ala
 500 505 510

Ile Arg Asn Arg Ala Val Asn Pro Asp Ala Pro Leu Pro Pro Val Ala
 515 520 525

Glu Ile Leu Thr Arg Phe Thr His Pro Pro Glu Pro Leu Leu Ala Lys
 530 535 540

Ala Lys Thr Glu Ile Asp Gly Leu Ile Gln Ala Ala Glu Val Lys Lys
 545 550 555 560

Sequencing list

Ala Glu Asp Asp Glu Thr Ile Glu Ile Ala Ala Lys Gln Met Gly Asn
565 570 575

Ile Ile Cys Lys Leu Val Ser Asp Ser Phe Ala Asp Val Leu Tyr Pro
580 585 590

Arg Ala Ala Glu Asn Leu Arg Val Met Arg Glu Glu Leu Ile Asn Met
595 600 605

Glu Val Pro Thr Leu Tyr Asn Lys Tyr Ile Thr Lys Leu Lys Glu Ser
610 615 620

Leu Leu Ser Val Ser Glu Ser Lys Ser Met Gly Gly Ser Leu Thr Gly
625 630 635 640

Ser Gly Glu Asp Thr Asp Glu Glu Arg Gln Arg Lys His Pro Phe Ser
645 650 655

Ala Gln Glu Val Gly
660

<210> 5
<211> 25
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<213> Artificial

<220>
<223> Designed nucleotides

<400> 5
gtgctgtagc cgttttgggt atgc

25

<210> 6
<211> 34
<212> DNA
<213> Artificial

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<223> Designed nucleotides

<400> 6
ggcgtaatag cgaagagata gttgctggaa ataa

34

<210> 7
<211> 33
<212> DNA
<213> Artificial

<220>
<223> Designed nucleotides

Sequencing list

<400> 7	
aagcataaag tgtaaaggct tgttgatgac cgt	33
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<211> 25	
<212> DNA	
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ttggacgccg cacacctctc gctct	25
<210> 9	
<211> 34	
<212> DNA	
<213> Artificial	
<220>	
<223> Designed nucleotides	
<400> 9	
ttatttccag caactatctc ttcgctatta cgcc	34
<210> 10	
<211> 34	
<212> DNA	
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<400> 10	
cacggtcac aacaagcctt tacactttat gctt	34
<210> 11	
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gcgccgggag gttgttcgta agctg	25
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Sequencing list

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<211> 25
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<400> 14
aaggcggagt tgttggctgc gaagg 25

<210> 15
<211> 34
<212> DNA
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<220>
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<400> 15
cagcaaagcc gaaaagcctc ttcgctatta cgcc 34

<210> 16
<211> 34
<212> DNA
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<220>
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<400> 16
acctgtctcc aacctgctt tacactttat gctt 34

<210> 17
<211> 25
<212> DNA
<213> Artificial

<220>
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<400> 17
gagaactgat catgcgatgc gtggc 25

Sequencing list

<210> 18
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 <212> DNA
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<210> 19
 <211> 29
 <212> DNA
 <213> Artificial

<220>
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<400> 19
 cacattgtcc aagcttactg tggctaccc 29

<210> 20
 <211> 29
 <212> DNA
 <213> Artificial

<220>
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<400> 20
 gggtagccac agtaagcttg gacaatgtg 29

<210> 21
 <211> 29
 <212> DNA
 <213> Artificial

<220>
 <223> Designed nucleotides

<400> 21
 cacattgtcc aagcttactg tggctaccc 29

<210> 22
 <211> 29
 <212> DNA
 <213> Artificial

<220>
 <223> Designed nucleotides

<400> 22
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<210> 23
 <211> 41

Sequencing list

<212> DNA
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 <400> 23
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 <210> 24
 <211> 41
 <212> DNA
 <213> Artificial

 <220>
 <223> Designed nucleotides

 <400> 24
 agaacagcgg ccgcaagaga tctcgatcac tgcttatgat c 41

 <210> 25
 <211> 40
 <212> DNA
 <213> Artificial

 <220>
 <223> Designed nucleotides

 <400> 25
 ctttaggcgg ccgcaattca agatgagtca taagaggatc 40

 <210> 26
 <211> 37
 <212> DNA
 <213> Artificial

 <220>
 <223> Designed nucleotides

 <400> 26
 catgtcgaca tttcaagaca ggtgaagagg tgacaag 37

 <210> 27
 <211> 39
 <212> DNA
 <213> Artificial

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 <223> Designed nucleotides

 <400> 27
 gctatagtcg actctgcatt taaggagaga atagctgtg 39

 <210> 28
 <211> 41
 <212> DNA
 <213> Artificial

Sequencing list

<220>

<223> Designed nucleotides

<400> 28

agaacagcgg ccgcaagaga tctcgatcac tgcttatgat c

41

<210> 29

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<211> 40

<212> DNA

<213> Artificial

<220>

<223> Designed nucleotides

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40